XR10 SPOT

User's Manual Rel 1.0 **GB**

D.T.S. Illuminazione srl - ITALY
http://www.dts-lighting.it

The Lighting Company

Made in Italy

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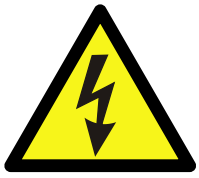
1- SYMBOLS

Graphic symbols used on this manual

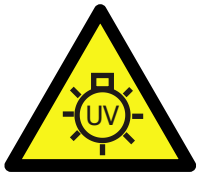
THIS SYMBOL INDICATES A HOT SURFACE



THIS SYMBOL INDICATES ELECTRIC SHOCK RISK

THIS SYMBOL INDICATES GENERAL RISK

THIS SYMBOL MEANS "DO NOT PLACE THE UNIT ON INFLAMMABLE SURFACES"



THIS SYMBOL MEANS "RADIATION FROM THIS LAMP CAN CAUSE DAMAGE TO EYES AND SKIN"

THIS SYMBOL INDICATES THE MINIMUM DISTANCE TO BE KEPT BETWEEN THE DEVICE AND THE LIT OBJECT

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation , use and maintenance.
The device is not for domestic use and must be installed by a qualified electrician or experienced person.
Always disconnect the device from the mains before replacing the lamp.
The lamp must be replaced if it has been damaged or deformed by prolonged use or overheating.
The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 24 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

The XR10 SPOT is a brand new moving head fitted with a 575W discharge lamp, combined with a dichroic parabolic reflector, which delivers no less than 10.600 Lux at 5 m (12° beam angle).
The XR10 SPOT is fitted with a Philips MSR 575/2 discharge lamp (GX9,5 lampholder base), with a colour temperature of 7,200 °K and a luminous flux of 49,000 Lumens.
The XR10 SPOT is one of the most complete moving heads in the 575W range and is particularly suitable for all professional applications, both mobile (concerts, shows, tours, special events) and fixed (clubs and other venues), requiring a compact light with a very high luminous output and versatility of functions.
The XR10 SPOT incorporates motorized focus, motorized iris, motorized linear zoom (10°- 30°), 3-facet rotating prism, frost filter (soft edge).
The XR10 SPOT features also a very flexible colour generation, thanks to two colour wheels with 7 colours each, including 3 colour conversion filters (3200°K, 5600°K and 6800°K), with linear selection for perfect 2-colour beams.
2 customizable gobo wheels are available, featuring respectively: 7 rotating and 16 bit indexable gobos; 8 fixed gobos. The XR10 SPOT also includes a new Pan / Tilt locking system with recessed buttons.
The XR10 SPOT is the ideal moving head as well for all applications in which quiet operation is required, thanks to its silent internal ventilation system and silent pan/tilt operation.

XR 10 SPOT (Cod. 03.MS010.L)
• Electromagnetic ballast 230V 50/60 Hz • Black colour

XR 10 SPOT (Cod. 03.MS010.EB.L)
• Electronic ballast 90-245V 50/60 Hz • Black colour

Also available with white finish (RAL 9003) on demand.
Also available with 120V or 100V power supply (Electromagnetic ballast version)

Lamp
Lamp: Philips MSR 575/2
Automatic switching ON of lamp in case of accidental switching OFF.
Lamp ON/OFF via DMX; Reset via DMX.

Optical group
10.600 Lux at 5 m (12°)
Dichroic glass reflector

Focus
Motorized focus

Iris
Motorized iris (16 bit)

Zoom
Motorized zoom (12°- 36°)

4- TECHNICAL FEATURES

Dimmer / shutter / strobo
Linear dimmer
Shutter
Strobe from 0,85 flash/sec to 6,75 flash/sec
Power saving mode (the lamp dims to 50% six seconds after shutter closure)

Colours
2 Colour wheels (7 colours + open with linear selection)
3200°K and 5600°K colour conversion filters
Colour change with blackout sync; rainbow effect

Gobos
2 gobo wheels: 1 rotating (7 indexable 16 bit gobos + open) and 1 fixed (8 gobos + open)
Extractable gobo holders for both wheels
Gobo change with synchronized blackout
Gobo scrolling; Gobo shake

Effects
Indexable prism rotating in both directions (3-facet)
Wash effect filter

Pan / Tilt
Pan 540° (3,9 sec.)
Tilt 270° (2,6 sec.)
16-bit resolution
2-Speed function (2 selectable pan/tilt speeds); extremely smooth and precise movements even at the highest speeds
Pan / Tilt locking system with recessed buttons
Automatic Pan/Tilt repositioning in case of knocks

25 DMX channels (Default)
Internal operating system updatable via DMX

Connections
4 XLR connectors (3-pole In and Out; 5-pole In and Out) by Neutrik
POWERCONN connector by Neutrik

Power supply
Electronic ballast: 90 - 245 V (50/60 Hz)
Electromagnetic ballast: 230 V (50/60 Hz)
On request: 100 V 50-60 Hz /120 V 60 HZ
Power consumption: 750 W
Power saving mode (the lamp dims to 50% six seconds after shutter closure)

Thermal
Operating ambient temperature: -10° / 40°

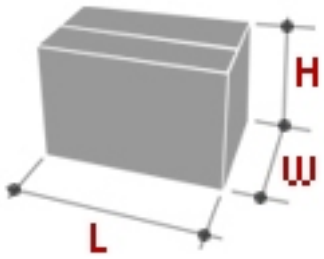
Weight
26 Kg (electronic ballast)
32 Kg (magnetic ballast)

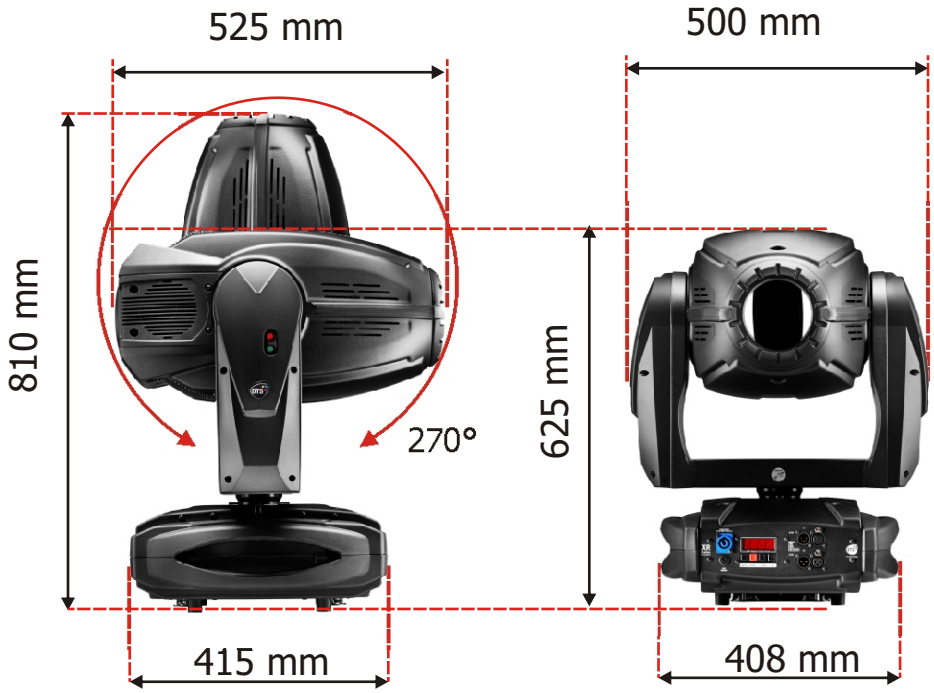
4- TECHNICAL FEATURES

Dimensions

Packaging Dimensions (LxWxH)
610 x 540 x 720 mm
31,5 Kg (Electronic ballast)
37,5 Kg (Electromagnet ballast)

Unit Dimensions (LxWxH)
525x500x810mm
26 Kg (Electronic ballast)
32 Kg (Electromagnet ballast)





5- ACCESSORIES

As standard

- 1 x MSR 575/2 lamp
- 1 x POWERCONN male cable connector (cod. 0520P014)
- 1 x XLR 5 Pins male cable connector (cod. 0508B028)
- 1 x XLR 5 Pins female cable connector (cod. 0508B027)
- 2 x "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
- User's manual

Optional (on request)

- Raincover for XR base (top) (cod. 03.MA001)
- Raincover for XR base (bottom) (cod. 03.MA002)
- Embedding flange for XR (visible display) (cod. 03.MA005)
- Embedding flange for XR (no visible display) (cod. 03.MA006)
- Wireless DMX receiver card (cod. 03.LA.012)
- "C" Clamp G60 black (max. load 50Kg) (cod. 0521A004)
- "C" Clamp G60 chrome (max. load. 50Kg) (cod. 0521A004.20)
- "C" Clamp GQUICK with "Fast Lock" connection 1/4 turn (max. load. 80Kg) (cod. 0521A014)
- "C" Clamp G100 black / professional (max. load. 200Kg) (cod. 0521A015)
- Omega clamp with "Fast Lock" connection 1/4 turn (Cod. 02K00467)
- Safety wire (3mm x 60 cm), ring spring catch, max. capacity load 60Kg (cod. 0521A010)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:

XR10 SPOT uses a PHILIPS MSR 575/2 lamp (other reccomended lamps: Philips 575 MSD).
The use of any other alternative lamp is not recommended and will null and void the fixture's warranty.
-Never locate the fixture on any flammable surface.
-Minimum distance from flammable materials: 1.5 MT.
-Minimum distance from the closest illuminable surface: 2 MT.
-Replace any blown or damaged fuses only with those of identical value. Refer to the wiring diagram if there is any doubt.
-Connect the projector to mains power via a thermal magnetic circuit breaker.

6.2 Prevention of electric shock:

-High voltage is present inside the unit. Unplug the unit prior to performing any function which involves touching the inside of the moving head, including lamp replacement.
-The level of technology inherent in the XR10 SPOT requires the assistance of specialised personnel for all servicing. Please refer to an authorised DTS service centre.
-A good earth connection is essential for proper functioning of the projector.
-Never connect the unit without proper earth connection.
-The fixture should be located in places with a good air ventilation.

6.3 Protection against ultraviolet radiation:

-Never turn on the lamp if any of the lenses, filters or ABS covering are damaged. Their respective shielding functions will only operate efficiently if they are in perfect working order.
-Never look directly the lamp when it is on.

6.4 Safety:

-The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.
-Always use a second safety cable to sustain the weight of the unit in case of the failure of the main fixing point.
-The external surface of the unit, at various points, may exceed 70°C. Never handle the unit until at least 10 minutes have elapsed since the lamp was turned off.
-Always replace the lamp if any physical damage is evident.
-Never install the fixture in an enclosed area lacking sufficient air flow. The ambient temperature should not exceed 40°C.
-A hot lamp may explode, so always wait for at least 10 minutes prior to attempting to replace the lamp.
-Always wear suitable hand protection when handling the lamp.

6.5 Level of protection against the penetration of solid and liquid objects:

-The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid objects is IP 20.
For outdoor use, D.T.S. reccomend the use of the dedicated raincovers:
- Raincover for XR base (top) (cod. 03.MA001)
- Raincover for XR base (bottom) (cod. 03.MA002)

7- MOUNTING THE LAMPS

Warning: Switch off the unit before replacing the lamp.

Philips 575 MSR/2	Philips 575 MSD
Power 575W	Power 575W
Luminous flux 49,000 lm	Luminous flux 43,000 lm
Colour temperature 7.200°K	Colour temperature 6.000°K
Lampbase GX9,5	Lampbase GX9,5
Rated life 1,000 hours	Rated life 3,000 hours

1) Using a screwdriver, loose the 3 screws A, B, C, (photo 1) and remove the metal cover .

Photo 1

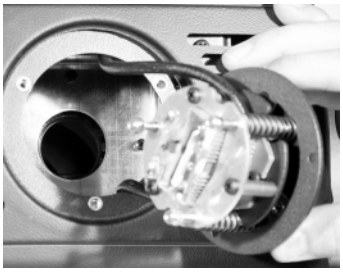


Photo 2

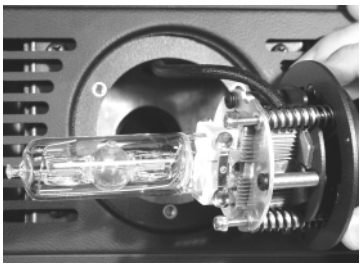


Photo 3

Photo 4

2) Remove the lamp holder assembly (photo2).
3))Insert the lamp (photo 3).
The lamp used on XR10 SPOT is made in quartz glass and should be handled with care. Always follow the instructions supplied in the lamp's packaging. Never touch the glass directly but use the tissue provided in the lamp's packaging. The GX9,5 lamp socket is symmetrical.
DO NOT USE UNDUE FORCE ON THE GLASS. In case of difficulty, read again the instructions and repeat the procedure.
4) Replace the lamp assembly and tighten the screws A,B,C, which were previously removed (Photo4).
WARNING: Never look directly at the lamp when it's lit.
Discharge lamps emits UV rays; radiation from this lamp can cause damage to eyes and skin.

7.1 Lamp alignment

Attention: we recommend to align the lamp in the optical system to avoid overheating of the dichroic filters and other components inside the unit. The lamp alignment is also essential to obtain the maximum unifirmity and luminous performance by the projection.

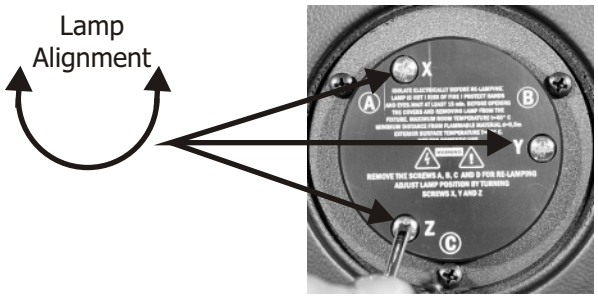


Photo 5

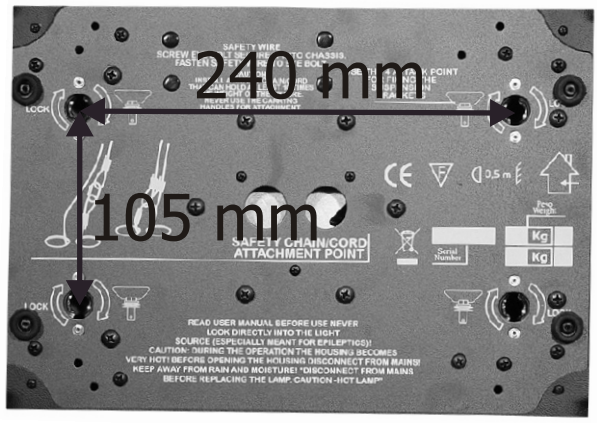
1) Mount the fixture in an orientation so that it may be squarely projected onto a smooth white surface no less than 3 meters away. 2) Using a console or the menu system, focus an open (white) beam onto the surface and observe the beam. 3) Using a phillips-head screw driver, rotate the 3 adjusters X, Y and Z (photo 5) until you achieve a uniform flat field.
When the lamp is correctly optimized, you will have an evenly projected light beam, with no shadows or zones wich are brighter than others.

8- VOLTAGE AND FREQUENCY

The XR10 SPOT with electronic ballast can operate at 90-260 VOLT 50 or 60 Hz.
The XR10 SPOT with electromagnetic ballast can operate at 230 VOLT 50 or 60 Hz (Standard).
On request: 100 V 50-60 Hz /120 V 60 HZ.

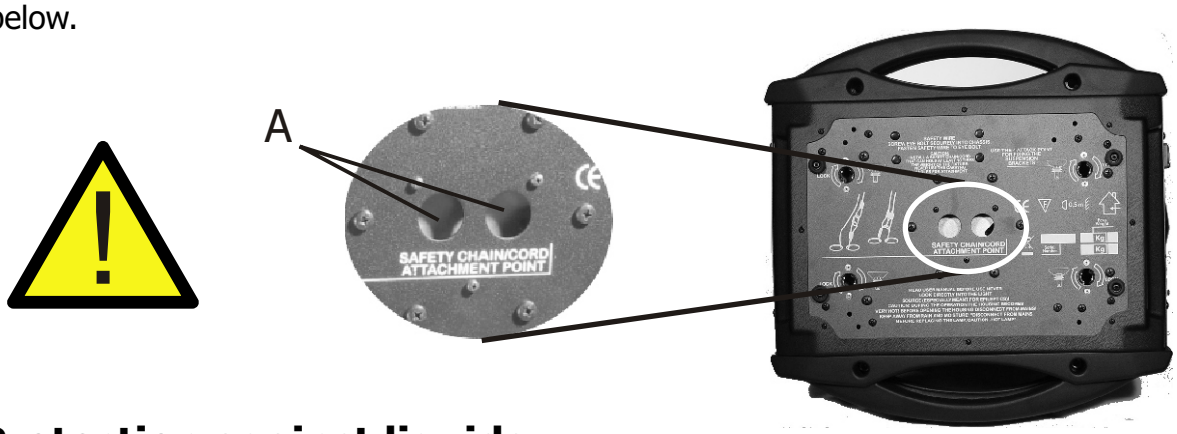
9- INSTALLATION

XR10 SPOT may be either floor or ceiling mounted.
For floor mounting installations, the XR10 SPOT is supplied with four rubber mounting feet on the base.
For ceiling mounted installations, we reccomend the use of appropriate clamps to fix the unit to the mounting surface.
The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it. The structure should also be sufficiently rigid so as not to move or shake whilst the XR10 SPOT is moving.
Four quarter turn fast locks placed on the base of the units, allows by using the two fast lock C clamps provided in the box, to fix the unit in any position.
.



9.1- Safety cable

We recommend the use of a safety cable connected to the XR10 SPOT and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail. Make sure that the iron cable can bear the weight of the entire unit.
You may attach the safety cable to the two holes (A) located on the base of the fixture, as shown in the picture below.



9.2- Protection against liquids

The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid. The proper unit functioning would be compromised should this occur.

9.3- Movement

The projector has a maximum movement of 540° for Pan and 270° for Tilt. DO NOT place any obstructions in the path of the projector's movement.

WARNING
Do not place any object in the path
of the projector's movement

9.4- Risk of fire

Each fixture produces heat and must be installed in a well-ventilated place. The minimum recommended distance from flammable material is 1 MT.

Minimum distance from the object being illuminated is 2 MT.

9.5- Forced ventilation

You will note, on inspection, that the unit features various air inlets and cooling fans located on both the base and head of the fixture. These should, under no circumstances, be blocked or obstructed whilst the projector is in operation.
Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

9.6- Ambient temperature

The projector should never be installed in places that lack a constant air flow. The ambient temperature should NOT exceed 40°C.

10- MAINS CONNECTION

XR10 SPOT with electronic ballast operate at 90-260 VOLT 50-60 Hz.
XR10 SPOT with electromagnetic ballast operate at 230 VOLT 50-60 Hz
(On request: 100 V 50-60 Hz /120 V 60 HZ).
Prior to connecting the unit to your mains supply,
ensure that the model in your possession correctly matches
the mains supply available. For connection purposes,
ensure that your plug is capable of supporting 6,3 amps at 230V,
Or12 amps at 100-120 V
Strict adherence to regulatory norms is strongly recommended.

10.1- Protection

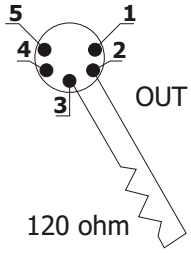
The use of a thermal magnetic circuit breaker is recommended for each XR10 SPOT.
A good earth connection is essential for the correct operation of the projector.

11- DMX SIGNAL CONNECTION

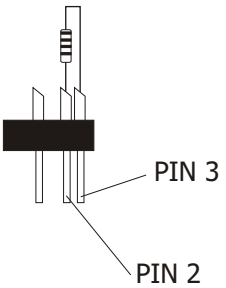
The unit operates using the digital DMX 512 (1990) signal. Connection between the mixer and the projector or between projectors must be carried out using a two pair screened ø 0.5 mm cable and a XLR 5 or 3 pins connector. Ensure that the conductors do not touch each other. Do not connect the cable ground to the XLR chassy
The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first projector to the DMX IN plug of the second one.
In this way, all the projectors are cascade connected.
NB. <u>If the display showing the DMX address flashes, then one of the following errors has occurred:</u>

- DMX signal not present
- DMX address not valid
- DMX reception problem

For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.
The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor
Between pin 2 and 3.
The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



11.1-DMX Addresses

XR10 SPOT can be controlled with 18, 25 (default) or 26 DMX channels.
If you want to use the unit in 25 channels mode (default), set the following addresses on the mixer:

Projector 1 A001
Projector 2 A026 If you want to select the next projector, just add "25"

Projector 3 A051
….. A….
projector 6 A126

11.2-Selecting the DMX address

1) Press the UP-DOWN key until you reach the required DMX channel. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now setted to the new DMX address.

TRICKS:
if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

12 FIRMWARE UPDATING

Warning:
This procedure require a base knolewge of computer applications and Windows Hyperterminal program. **Please refer to an authorised DTS service centre.**

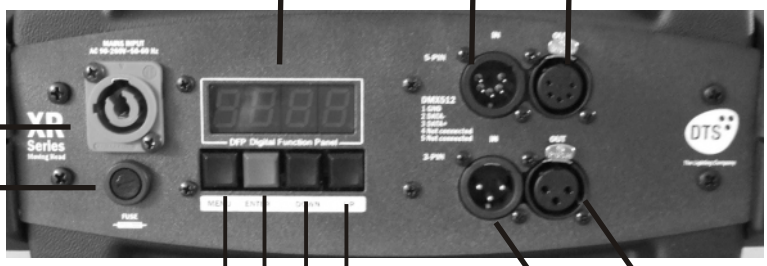
To update the software version of the XR10 SPOT you need:
D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008).
USB-DMX Driver for the D.T.S. RED BOX interface .
(The driver and the installation procedure are available in our web site www.dts-lighting.it)
Updated software version.
Please follow the below procedure to perform the updating:

1. Install the D.T.S. RED BOX USB-DMX driver on the PC you will use to update the unit software.
2. Connect the D.T.S. RED BOX interface to the PC by using a USB cable.
3. Connect the D.T.S. RED BOX interface to the fixture by using a DMX cable.
4. Download the new software version into the unit by using Windows Hyperterminal program.

It will be possible to download the software from the reserved area of D.T.S. web site:
www.dts-lighting.it.

13- DISPLAY FUNCTIONS

Mains
Electronic ballast:
90-260V 50 / 60Hz
Electromagnetic ballast:
230 V 50/60 Hz (standard)
On request: 100 V 50-60 Hz
120 V 60 HZ



DISPLAY FUNCTIONS

The XR10 SPOT display panel shows all the available functions . Using these functions, it is possible to change some of the parameters and add some functions. Changing the DTS setting can vary the functions of the unit so that it does not respond to the DMX 512 used to control it. Carefully follow the instructions below before carrying out any variations or selections.
NOTE: the symbol ☞ shows which key has to be pushed to obtain the desired function.

A001 — MENU ☞ Up-Down ☞ **Pdir** — ENTER ☞ Up-Down ☞ **CU** Clockwise — ENTER ☞
Up-Down ☞ **CCU** Counterclockwise — ENTER ☞

PAN MOVEMENT INVERSION
To reverse Pan movement from left to right and vice versa

MENU ☞ Up-Down ☞ **tdir** — ENTER ☞ Up-Down ☞ **CU** Clockwise — ENTER ☞
Up-Down ☞ **CCU** Counterclockwise — ENTER ☞

TILT MOVEMENT INVERSION
To reverse Tilt movement from bottom upwards and vice versa

MENU ☞ Up-Down ☞ **diSP** — ENTER ☞ Up-Down ☞ **POSI** — ENTER ☞ Up-Down ☞
AA Floor position — ENTER ☞
bb Suspension position — ENTER ☞
Up-Down ☞ **StbY** — ENTER ☞ Up-Down ☞ **oFF** Display OFF — ENTER ☞
on Display always ON — ENTER ☞

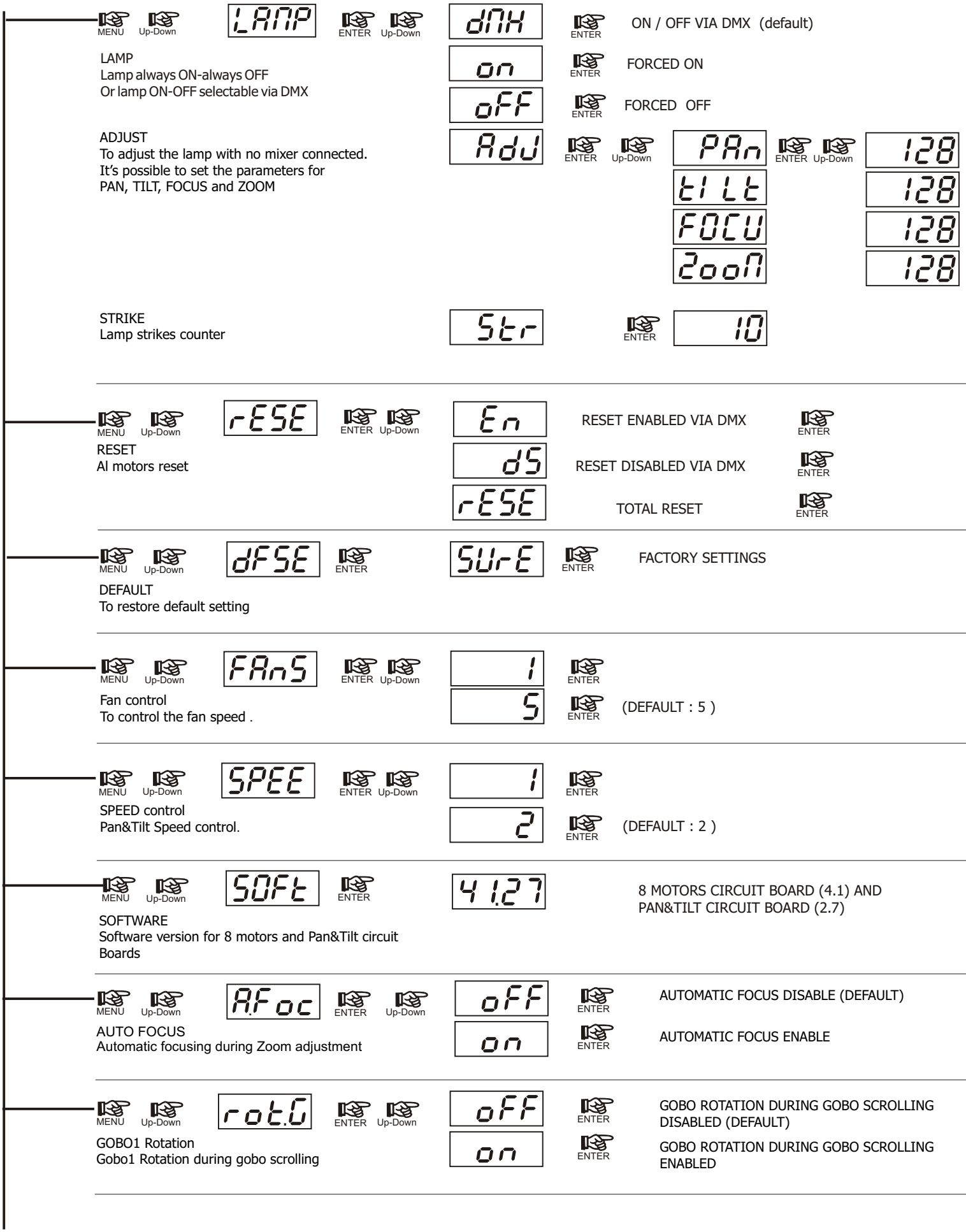
REVERSE DISPLAY
Reverses display's reading depending on the mounting position
(On the ground or suspended).

DISPLAY STAND BY
To turn off the display (after 5 seconds)
Or leave it always on.

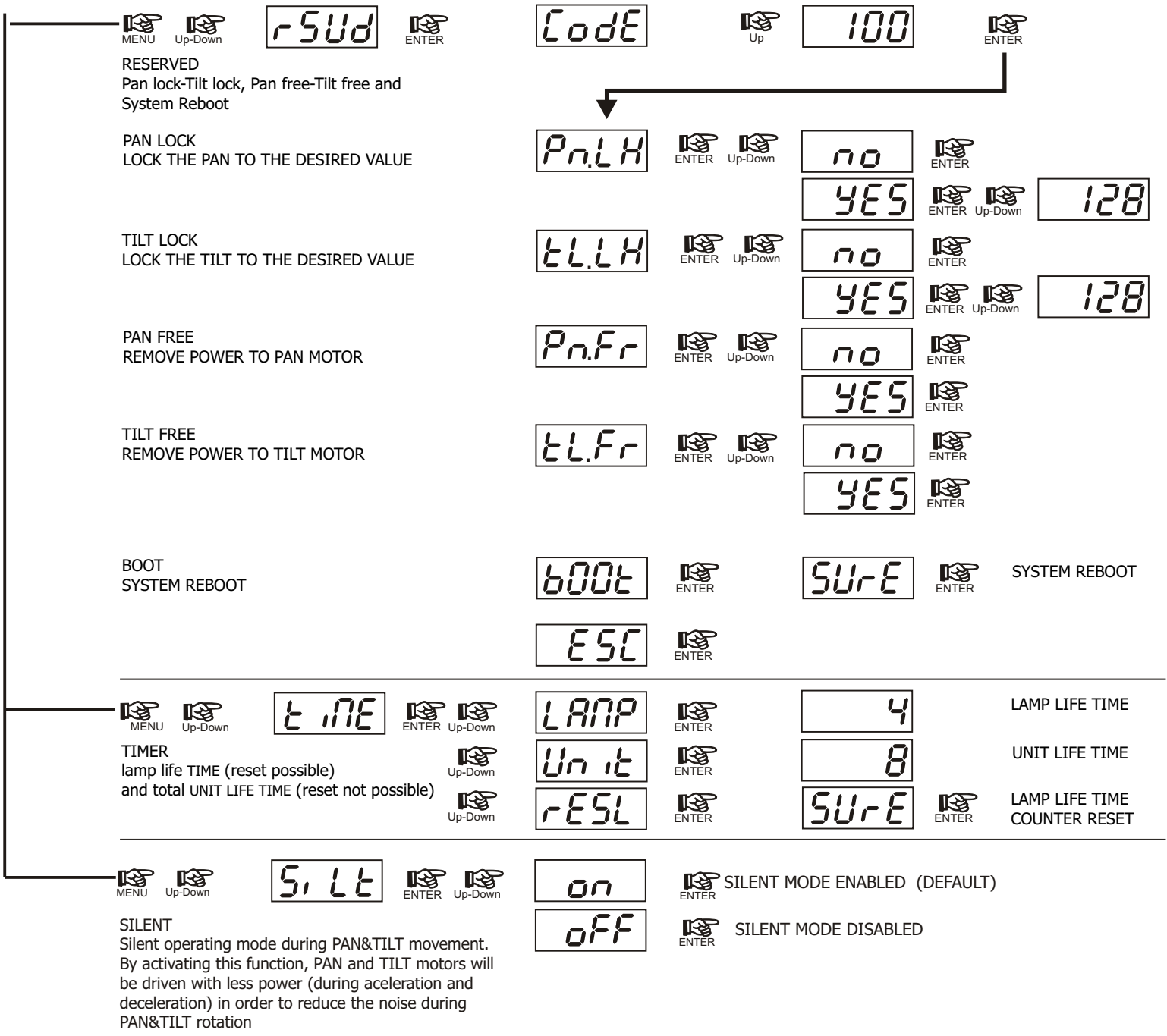
MENU ☞ Up-Down ☞ **nOdE** — ENTER ☞ Up-Down ☞ **25CH** 25 CHANNELS (Pan & Tilt 16 bit) — ENTER ☞ Default
Up-Down ☞ **26CH** 26 CHANNELS (Pan & Tilt 16 bit) — ENTER ☞ Same fixture as XR9 SPOT
18CH 18 CHANNELS (Pan & Tilt 16 bit)

DMX MODE
To select DMX mode : 25 (default), 26 or18 DMX channels

13- DISPLAY FUNCTIONS



13- DISPLAY FUNCTIONS



14- PAN & TILT SPEED (SPEE) (default: 1)

You can set the PAN and TILT motors at high speed on your XR10 SPOT.
Press menu until you see SPEE.
Press ENTER and select a speed with UP-DOWN (there are 2 speeds). Confirm by pressing ENTER.

15- FAN SPEED (FANS)(default: 5)

Fan speed regulation makes it possible to reduce fan noise. However, the ambient temperature must be less than 35° C.

16- ERROR MESSAGES

— **ERROR: ENCODER PAN**

— **ERROR: ENCODER TILT**

— **ERROR: DMX ADDRESS**

— **ERROR: LOAD DATA EEPROM**

— **ERROR: INTERNAL COMMUNICATION**

— **ERROR: COLOR 1 WHEEL POSITION**

— **ERROR: COLOR 2 WHEEL POSITION**

— **ERROR: FIXED GOBO WHEEL POSITION**

— **ERROR: ROTATING GOBO WHEEL POSITION**

— **ERROR: ROTATING GOBO INDEX POSITION**

— **ERROR: IRIS POSITION**

— **ERROR: EFFECTS POSITION (FROST - PRISM)**

— **ERROR: FOCUS POSITION**

— **ERROR: ZOOM POSITION**

17- HIDDEN MENU

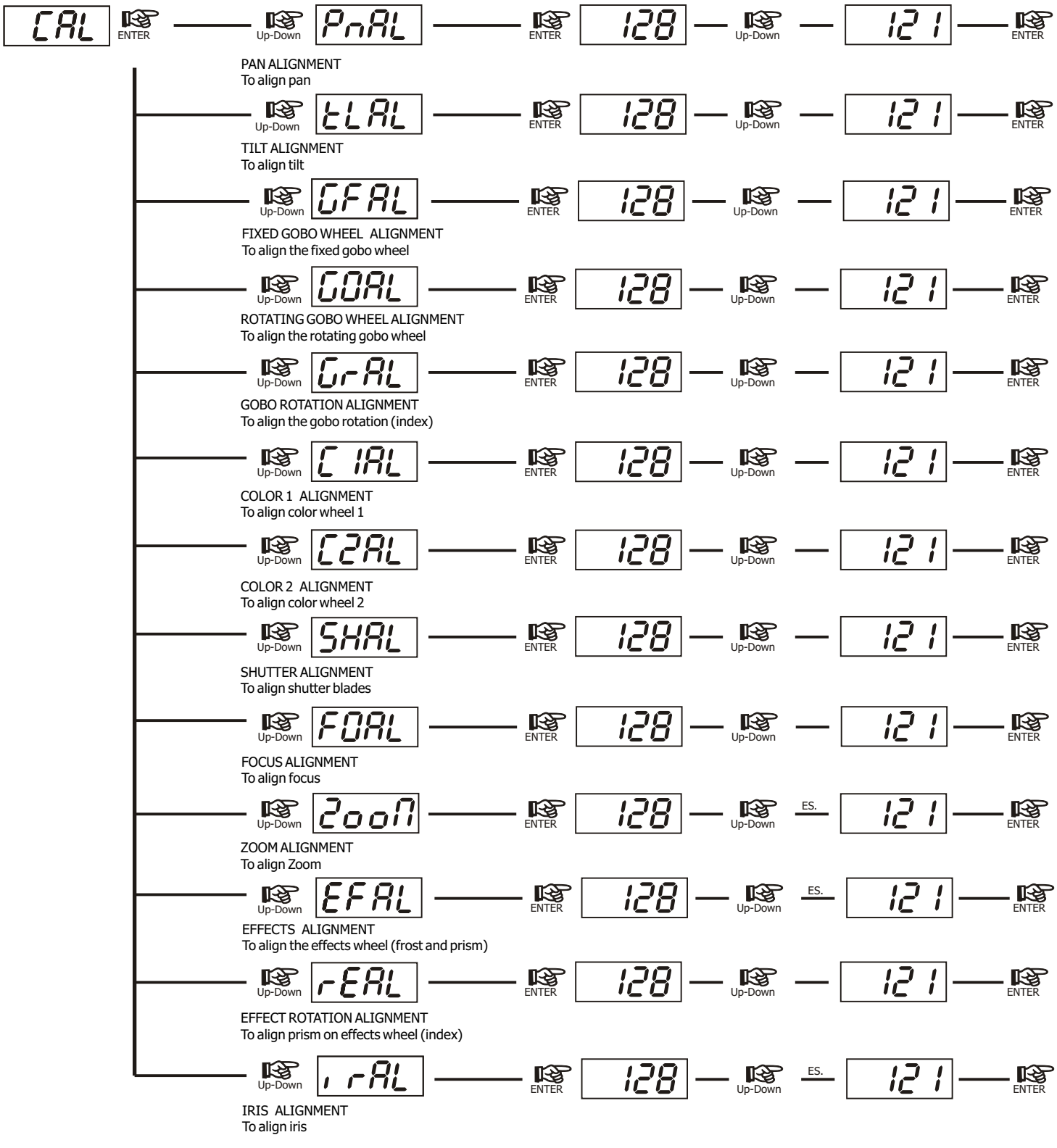
For technical personnel only.

To operate this menu:

-Connect the projector to the DMX controller (DMX SIGNAL MUST BE CORRECTLY RECEIVED)

- Reset the XR10 SPOT (reset from the MENU, not from the DMX controller!).
- While reset is running, press the MENU and ENTER keys at the same time.

CAL	Electronic calibration of the motors.
rESN	Reset EEPROM (Reset all settings. ATTENTION: by pressing this key you must repeat all previous calibrations)
ESC	Exit from hidden menu.



18- OPENING THE PROJECTOR HOUSING

It is possible to inspect the inside of the projector by removing the cover as indicated below.

ATTENTION

REMOVE MAINS POWER PRIOR TO ACCESSING THE PROJECTOR'S INTERNAL COMPONENTS.

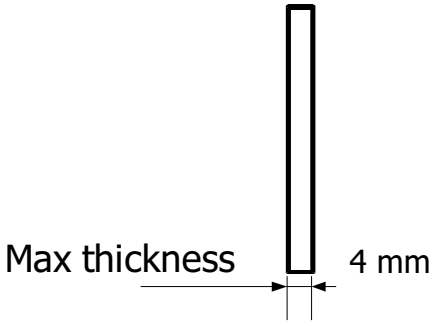
1) Loosen the 3 screws which fix the head covers (photo 1) .
2) Once unscrewed, simply lift the covers to access the internal components (photo 2).

Photo 1

Photo 2

19- REPLACING GOBOS

XR10 SPOT uses a mechanical system which allows the fixture's gobos to be removed without the use of special tools. Replacement gobos should be made of either heat resistant glass or metal.
An ever-increasing range of gobos is available from your DTS sales network.
Gobo dimensions are as follows:
ø external (ED) = 27.9 mm
ø of image with defined edge (ID) = 24 mm
thickness = from 0.2 to 4 mm (see catalogue)



Coated side

When an object is held up the coated side of the glass gobo there is no space between the object and its reflection.

Coated side

Uncoated side

When an object is held up the uncoated side of the glass gobo there is a space between the object and its reflection.

Uncoated side

Load with coated surface toward the light source.

Replacing gobos on the rotating gobo wheel

When replacing gobos, ensure that the projector is switched off.
1) Open the projector housing as described above.
2) Remove the gobo holder to allow easier access to the gobo (photo 1).
3) Release the gobo retaining spring and carefully remove the gobo (photo 3).
4) Reverse the procedure to install a replacement gobo.

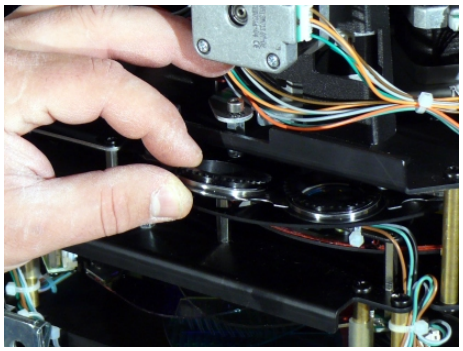


Photo 1

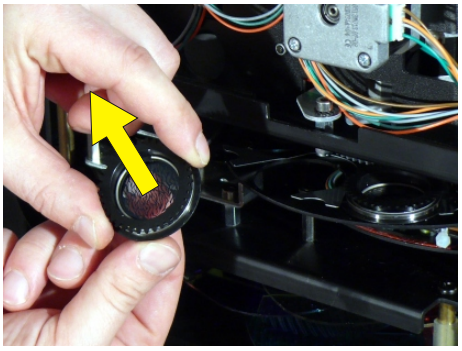


Photo 3

20- PERIODIC CLEANING

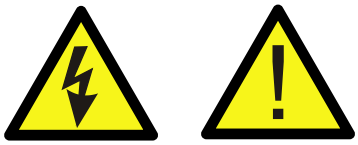
20.1- Lenses and reflectors

Even a fine layer of dust can reduce the luminous output substantially. Regularly clean all lenses and the reflector using a soft cotton cloth, dampened with a specialist lens cleaning solution.

20.2- Fans and air passages

The fans and air passages must be cleaned approximately every 6 weeks. This periodic cleaning will depend of course, on the conditions in which the projector is operating. Suitable instruments for performing this type of maintenance are a brush and a common vacuum cleaner or an air compressor. If necessary, clean the fans and air passages more frequently.

21- PERIODIC CONTROLS



Attention

Disconnect mains power prior to removing the projector housing.

Lamp

The lamp should be replaced if there is any visible damage or deformation due to heat. This will help to avoid the danger of the lamp exploding.
XR10 SPOT lamp lifespan is about 1000 hours, then it is necessary to replace it.

Mechanical parts

Periodically check all mechanical parts,gears, guides, belts, etc.for wear and tear, replacing them if necessary. Periodically check the lubrication of all components, particularly the parts subject to high temperatures. If necessary, lubricate with suitable lubricant, available from your D.T.S. distributor. Check the tension of the belts and adjust it if necessary.

Electrical components

Check all electrical components for correct earthing and proper connection of all connectors, refastening if necessary.

Fuse replacement

Locate the fuse, which protects the lamp and electronics, in the base of the XR10 SPOT
Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type if necessary.

22- DMX PROTOCOL

18 CHANNELS MODE

1 **PAN msb 540°**
2 **PAN lsb**
3 **TILT msb 270°**
4 **TILT lsb**
5 **SPEED MOVEMENT**
6 **DIMMER**
7 **SHUTTER**
8 **COLOUR 1**
9 **COLOUR 2**
10 **ROTATING GOBO WHEEL**
11 **GOBO ROTATION / INDEX**
12 **FIXED GOBO WHEEL**
13 **IRIS**
14 **EFFECTS**
15 **EFFECTS ROTATION**
16 **FOCUS**
17 **ZOOM**
18 **LAMP ON-OFF / RESET**

DMX CHANNEL	1	Parameter: **PAN msb**

DMX CHANNEL	2	Parameter: **PAN lsb**

DMX CHANNEL	3	Parameter: **TILT msb**

DMX CHANNEL	4	Parameter: **TILT lsb**

DMX CHANNEL	5	Parameter: **SPEED MOVEMENT**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-10					**Standard**
11-25					**Fast movement**
26-127					**Vector mode from fast to slow**
128-247					**Variable time reaction to DMX signal (fast to slow)**
248-255					**Silent Mode**

DMX CHANNEL	6	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					**Black-out**
8-255					**Proportional dimmer**

DMX CHANNEL	7	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-19					**Black-out**
20-39					**Open**
40-59					**Black-out**
60-79					**Random Strobe**
80-89					**Strobe speed 1 min. (0,85 Hz)**
90-99					**Strobe speed 2 (1,4 Hz)**
100-109					**Strobe speed 3 (2 HZ)**
110-119					**Strobe speed 4 (3,75 Hz)**
120-129					**Strobe speed 5 (5 Hz)**
130-139					**Strobe speed 6 max. (6,75 Hz)**
140-149					**Pulse open speed 1 min.**
150-159					**Pulse open speed 2**
160-169					**Pulse open speed 3**
170-179					**Pulse open speed 4 max.**
180-189					**Pulse closed speed 1 min.**
190-199					**Pulse closed speed 2**
200-209					**Pulse closed speed 3**
210-219					**Pulse closed speed 4 max.**
220-227					**Colour and Gobo in black-out**
228-233					**Pan and Tilt in black-out**
234-255					**Open**

DMX CHANNEL	8	Parameter: **COLOUR 1**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-11					**Colour1**
12-23					**Bicolour ½**
24-35					**Colour2**
36-47					**Bicolour 2/3**
48-59					**Colour3**
60-71					**Bicolour 3/4**
72-83					**Colour4**
84-95					**Bicolour 4/5**
96-107					**Colour5**
108-119					**Bicolour 5/6**
120-131					**Colour6**
132-143					**Bicolour 6/7**
144-155					**Colour7**
156-167					**Bicolour 7/8**
168-179					**Colour8**

180-197					**Bicolour 8/1**
198-200					**Right rotation speed 9 max.**
201-203					**Right rotation speed 8**
204-206					**Right rotation speed 7**
207-209					**Right rotation speed 6**
210-212					**Right rotation speed 5**
213-215					**Right rotation speed 4**
216-218					**Right rotation speed 3**
219-221					**Right rotation speed 2**
222-224					**Right rotation speed 1 min.**
225-228					**Stop**
229-231					**Left rotation speed 1 min.**
232-234					**Left rotation speed 2**
235-237					**Left rotation speed 3**
238-240					**Left rotation speed 4**
241-243					**Left rotation speed 5**
244-246					**Left rotation speed 6**
247-249					**Left rotation speed 7**
250-252					**Left rotation speed 8**
253-255					**Left rotation speed 9 max.**

DMX CHANNEL	**9**	Parameter: **COLOUR 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-11					**Colour1**
12-23					**Bicolour ½**
24-35					**Colour2**
36-47					**Bicolour 2/3**
48-59					**Colour3**
60-71					**Bicolour 3/4**
72-83					**Colour4**
84-95					**Bicolour 4/5**
96-107					**Colour5**
108-119					**Bicolour 5/6**
120-131					**Colour6**
132-143					**Bicolour 6/7**
144-155					**Colour7**
156-167					**Bicolour 7/8**
168-179					**Colour8**

180-197					**Bicolour 8/1**
198-200					**Right rotation speed 9 max.**
201-203					**Right rotation speed 8**
204-206					**Right rotation speed 7**
207-209					**Right rotation speed 6**
210-212					**Right rotation speed 5**
213-215					**Right rotation speed 4**
216-218					**Right rotation speed 3**
219-221					**Right rotation speed 2**
222-224					**Right rotation speed 1 min.**
225-228					**Stop**
229-231					**Left rotation speed 1 min.**
232-234					**Left rotation speed 2**
235-237					**Left rotation speed 3**
238-240					**Left rotation speed 4**
241-243					**Left rotation speed 5**
244-246					**Left rotation speed 6**
247-249					**Left rotation speed 7**
250-252					**Left rotation speed 8**
253-255					**Left rotation speed 9 max.**

DMX CHANNEL	**10**	Parameter: **ROTATING GOBO WHEEL**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-25					**Open**
26-51					**Gobo 1**
52-77					**Gobo 2**
78-103					**Gobo 3**
104-129					**Gobo 4**
130-155					**Gobo 5**
156-181					**Gobo 6**
182-207					**Gobo 7**
208-213					**Speed rotation 1 min.**
214-219					**Speed rotation 2**
220-225					**Speed rotation 3**
226-231					**Speed rotation 4**
232-237					**Speed rotation 5**
238-243					**Speed rotation 6**
244-249					**Speed rotation 7**
250-255					**Speed rotation 8 max.**

DMX CHANNEL	**11**	Parameter: **ROTATING GOBO WHEEL ROTATION/INDEX**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-127					**Proportional index 0° / 360°**
128-180					**Left rotation**
181-202					**Stop**
203-255					**Right rotation**

DMX CHANNEL	12	Parameter: **GOBO 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-22					**Open**
23-45					**Gobo 1**
46-68					**Gobo 2**
69-91					**Gobo 3**
92-114					**Gobo 4**
115-137					**Gobo 5**
138-160					**Gobo 6**
161-183					**Gobo 7**
184-207					**Gobo 8**
208-213					**Speed rotation 1 min**
214-219					**Speed rotation 2**
220-225					**Speed rotation 3**
226-231					**Speed rotation 4**
232-237					**Speed rotation 5**
238-243					**Speed rotation 6**
244-255					**Speed rotation 7 max**

DMX CHANNEL	13	Parameter: **IRIS**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-005					**Open**
006-159					**Linear Iris from Open to Closed**
160-171					**Closed**
172-199					**Iris pulse at different speeds from Max to Min**
200-227					**Iris pulse with flash closing from Min to Max**
228-255					**Iris pulse with flash openig from Min to Max**

DMX CHANNEL	14	Parameter: **EFFECTS**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
000-085					**No effect**
086-171					**3 facet prism**
172-255					**Frost**

DMX CHANNEL	15	Parameter: **EFFECTS ROTATION**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-009					**Stop**
10 -127					**Left rotation from fast to slow**
128 -137					**Stop**
138 -255					**Right rotation from slow to fast**

DMX CHANNEL	16	Parameter: **FOCUS**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Linear focus**

DMX CHANNEL	17	Parameter: **ZOOM**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Linear zoom**

DMX CHANNEL	18	Parameter: **RESET / LAMP**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					**No Effect**
10-60				**Lamp OFF (activ.after 3 seconds)**	
61-129				**No Effect**	
130-179				**Lamp ON (activ.after 3 seconds)**	
180-200					**No Effect**
201-239					**Internal motor reset**
240-255					**Total Reset**

25 CHANNELS MODE (DEFAULT)

1 PAN msb 540°
2 PAN lsb
3 TILT msb 270°
4 TILT lsb
5 SPEED MOVEMENT
6 DIMMER
7 SHUTTER
8 COLOUR 1
9 COLOUR 1 MODE
10 COLOUR 2
11 COLOUR 2 MODE
12 GOBO 1
13 GOBO 1 MODE
14 GOBO 1 ROTATION/INDEX COARSE
15 GOBO 1 INDEX FINE 16 bit
16 GOBO 1 SHAKE
17 GOBO 2
18 GOBO 2 SHAKE
19 IRIS
20 IRIS MACROS
21 EFFECTS
22 EFFECTS ROTATION
23 FOCUS
24 ZOOM
25 LAMP ON/OFF - RESET

DMX CHANNEL	**1**	Parameter: **PAN msb**
DMX CHANNEL	**2**	Parameter: **PAN lsb**
DMX CHANNEL	**3**	Parameter: **TILT msb**
DMX CHANNEL	**4**	Parameter: **TILT lsb**
DMX CHANNEL	**5**	Parameter: **SPEED MOVEMENT**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-10					**Standard**
11-25					**Fast movement**
26-127					**Vector mode from fast to slow**
128-247					**Variable time reaction to DMX signal (fast to slow)**
248-255					**Silent movement**

DMX CHANNEL	6	Parameter: **DIMMER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					**Black-out**
8-255					**Proportional dimmer**

DMX CHANNEL	7	Parameter: **SHUTTER**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-19					**Black-out**
20-39					**Open**
40-59					**Black-out**
60-79					**Random Strobe**
80-89					**Strobe speed 1 min. (0,85 Hz)**
90-99					**Strobe speed 2 (1,4 Hz)**
100-109					**Strobe speed 3 (2 HZ)**
110-119					**Strobe speed 4 (3,75 Hz)**
120-129					**Strobe speed 5 (5 Hz)**
130-139					**Strobe speed 6 max. (6,75 Hz)**
140-149					**Pulse open speed 1 min.**
150-159					**Pulse open speed 2**
160-169					**Pulse open speed 3**
170-179					**Pulse open speed 4 max.**
180-189					**Pulse closed speed 1 min.**
190-199					**Pulse closed speed 2**
200-209					**Pulse closed speed 3**
210-219					**Pulse closed speed 4 max.**
220-227					**Colour and Gobo in black-out**
228-233					**Pan and Tilt in black-out**
234-255					**Open**

DMX CHANNEL	8	Parameter: **COLOUR 1**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 9 = FULL COLOUR (Dmx range value 0 - 63)					
0-31					**Colour1**
32 -63					**Colour2**
64-95					**Colour3**
96-127					**Colour4**
128-159					**Colour5**
160-191					**Colour6**
192-223					**Colour7**
224-255					**Colour8**

DMX CHANNEL	8	Parameter: **COLOUR 1**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 9 = HALF COLOUR (Dmx range value 64 - 127)					
0-27					**Colour 1**
28-55					**Bicolour 1/ 2**
56-83					**Bicolour 2/ 3**
84-111					**Bicolour 3/ 4**
112-139					**Bicolour 4/ 5**
140-167					**Bicolour 5/ 6**
168-195					**Bicolour 6/ 7**
196-223					**Bicolour 7/ 8**
224-255					**Bicolour 8/ 1**
IF CHANNEL 9 = PROPORTIONAL COLOUR (Dmx range value 128 - 191)					
0-10					**No Colour**
11-255					**Proportional colour**
IF CHANNEL 9 = RAINBOW (Dmx range value 192 - 255)					
0-9					**No Colour**
10-127					**Right Rot.Speed from Max to Min**
128-137					**Stop**
138-255					**Left Rot.speed from Min to Max**

DMX CHANNEL	9	Parameter: **COLOUR 1 MODE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-63					**Full Colour**
64-127					**Half Colour**
128-191					**Proportional Colour**
192-255					**Rainbow**

DMX CHANNEL	10	Parameter: **COLOUR 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 11 = FULL COLOUR (Dmx range value 0 - 63)					
0-31					**Colour1**
32-63					**Colour2**
64-95					**Colour3**
96-127					**Colour4**
128-159					**Colour5**
160-191					**Colour6**
192-223					**Colour7**
224-255					**Colour8**

DMX CHANNEL	10	Parameter: **COLOUR 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 11 = HALF COLOUR (Dmx range value 64 - 127)					
0-27					**Colour 1**
28-55					**Bicolour 1 /2**
56-83					**Bicolour 2/3**
84-111					**Bicolour 3/4**
112-139					**Bicolour 4/5**
140-167					**Bicolour 5/6**
168-195					**Bicolour 6/7**
196-223					**Bicolour 7/8**
224-255					**Bicolour 8/9**
234-255					**Bicolour 9/1**
IF CHANNEL 11 = PROPORTIONAL COLOUR (Dmx range value 128 - 191)					
0-10					**No Colour**
11-255					**Proportional colour**
IF CHANNEL 11 = RAINBOW (Dmx range value 192 - 255)					
0-9					**No Colour**
10-127					**Right Rot.Speed from Max to Min**
128-137					**Stop**
138-255					**Left Rot.speed from Min to Max**

DMX CHANNEL	11	Parameter: **COLOUR 2 MODE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-63					**Full Colour**
64-127					**Half Colour**
128-191					**Proportional Colour**
192-255					**Rainbow**

DMX CHANNEL	12	Parameter: **GOBO 1**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-25					**Open**
26-51					**Gobo 1**
52-77					**Gobo 2**
78-103					**Gobo 3**
104-129					**Gobo 4**
130-155					**Gobo 5**
156-181					**Gobo 6**
182-207					**Gobo 7**
208-213					**Rotation speed 1 min.**

DMX CHANNEL	12	Parameter: **GOBO 1**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
214-219					**Rotation speed 2**
220-225					**Rotation speed 3**
226-231					**Rotation speed 4**
232-237					**Rotation speed 5**
238-243					**Rotation speed 6**
244-249					**Rotation speed 7**
250-255					**Rotation speed 8 Max**

DMX CHANNEL	13	Parameter: **GOBO 1 MODE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-127					**Gobo Rotation Mode**
128-255					**Gobo Index Mode**

DMX CHANNEL	14	Parameter: **GOBO 1 ROTATION/GOBO 1 INDEX COARSE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
IF CHANNEL 13 = Gobo Rotation Mode (Dmx range value 0 - 127)					
0-9					**Stop**
10-127					**SX Rot. Prop. Speed Max to Min**
128-137					**Stop**
138-255					**DX Rot. Prop. Speed Min to Max**
IF CHANNEL 13 = Gobo Index Mode (Dmx range value 128 - 255)					
0-255					**Gobo index Coarse**

DMX CHANNEL	15	Parameter: **GOBO 1 INDEX FINE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Gobo Index Fine**

DMX CHANNEL	16	Parameter: **GOBO 1 SHAKE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					**Stop**
10-22					**Gobo Shake R-L Speed 1 Min.**
23-35					**Gobo Shake R-L Speed 2**
36-48					**Gobo Shake R-L Speed 3**

DMX CHANNEL	16	Parameter: **GOBO 1 SHAKE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
49-61					**Gobo Shake R-L Speed 4**
62-74					**Gobo Shake R-L Speed 5**
75-87					**Gobo Shake R-L Speed 6**
88-100					**Gobo Shake R-L Speed 7**
101-113					**Gobo Shake R-L Speed 8**
114-126					**Gobo Shake R-L Speed 9 Max**
127-138					**Stop**
139-151					**Gobo Shake L-R Speed 1 Min**
152-164					**Gobo Shake L-R Speed 2**
165-177					**Gobo Shake L-R Speed 3**
178-190					**Gobo Shake L-R Speed 4**
191-203					**Gobo Shake L-R Speed 5**
204-216					**Gobo Shake L-R Speed 6**
217-229					**Gobo Shake L-R Speed 7**
230-242					**Gobo Shake L-R Speed 8**
243-255					**Gobo Shake L-R Speed 9 Max**

DMX CHANNEL	17	Parameter: **GOBO 2**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-22					**Open**
23-45					**Gobo 1**
46-68					**Gobo 2**
69-91					**Gobo 3**
92-114					**Gobo 4**
115-137					**Gobo 5**
138-160					**Gobo 6**
161-183					**Gobo 7**
184-207					**Gobo 8**
208-213					**Speed rotation 1 min**
214-219					**Speed rotation 2**
220-225					**Speed rotation 3**
226-231					**Speed rotation 4**
232-237					**Speed rotation 5**
238-243					**Speed rotation 6**
244-255					**Speed rotation 7 max**

DMX CHANNEL	18	Parameter: **GOBO 2 SHAKE**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					**Stop**
10-22					**Gobo Shake R-L Speed 1 Min.**
23-35					**Gobo Shake R-L Speed 2**
36-48					**Gobo Shake R-L Speed 3**
49-61					**Gobo Shake R-L Speed 4**
62-74					**Gobo Shake R-L Speed 5**
75-87					**Gobo Shake R-L Speed 6**
88-100					**Gobo Shake R-L Speed 7**
101-113					**Gobo Shake R-L Speed 8**
114-126					**Gobo Shake R-L Speed 9 Max**
127-138					**Stop**
139-151					**Gobo Shake L-R Speed 1 Min**
152-164					**Gobo Shake L-R Speed 2**
165-177					**Gobo Shake L-R Speed 3**
178-190					**Gobo Shake L-R Speed 4**
191-203					**Gobo Shake L-R Speed 5**
204-216					**Gobo Shake L-R Speed 6**
217-229					**Gobo Shake L-R Speed 7**
230-242					**Gobo Shake L-R Speed 8**
243-255					**Gobo Shake L-R Speed 9 Max**

DMX CHANNEL	19	Parameter: **IRIS**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-5					**Open**
6-255					**Linear Iris from Open to Closed**

DMX CHANNEL	20	Parameter: **IRIS MACROS**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					**No effect**
10-91					**Iris pulse at different speeds from Min to Max**
92-173					**Iris pulse with flash closing from Min to Max**
174-255					**Iris pulse with flash opening from Min to Max**

DMX CHANNEL	21	Parameter: **EFFECTS**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-085					**No effect**
86-171					**3 facet prism**
172-255					**Frost**

DMX CHANNEL	22	Parameter: **EFFECTS ROTATION**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					**Stop**
10-127					**Left Rotation from fast to slow**
128-143					**Stop**
144-255					**Right Rotation from slow to fast**

DMX CHANNEL	23	Parameter: **FOCUS**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Linear Focus**

DMX CHANNEL	24	Parameter: **ZOOM**

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					**Linear zoom**

DMX CHANNEL	25	Parameter: **RESET**

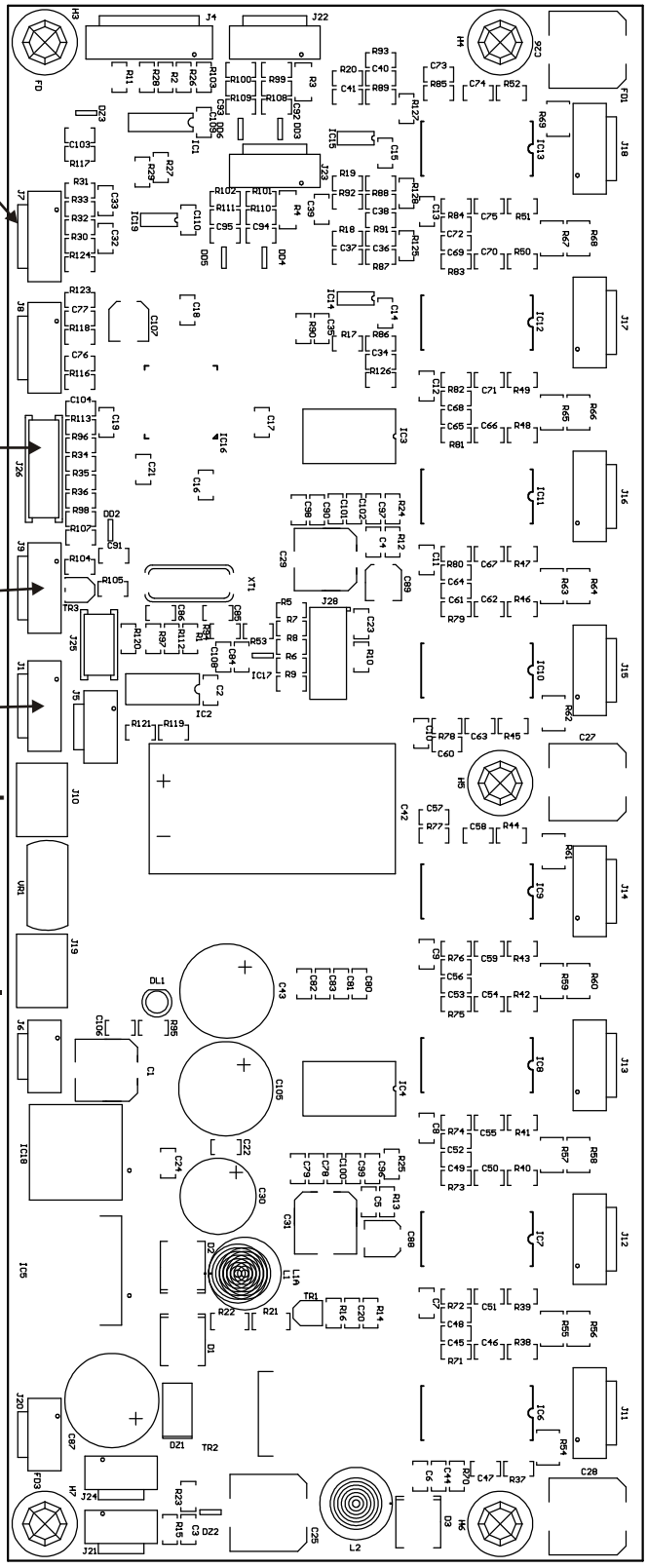
DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-9					**No Effect**
10-60					**Lamp OFF (activ.after 3 seconds)**
61-129					**No Effect**
130-179					**Lamp ON (activ.after 3 seconds)**
180-200					**No Effect**
201-239					**Internal motor reset**
240-255					**Total Reset**

26 CHANNELS MODE (SEE THE 25 CHANNELS MODE FOR DETAILS)

1	PAN msb 540°
2	PAN lsb
3	TILT msb 270°
4	TILT lsb
5	SPEED MOVEMENT
6	DIMMER
7	SHUTTER
8	COLOUR 1
9	COLOUR 1 MODE
10	COLOUR 2
11	COLOUR 2 MODE
12	GOBO 1
13	GOBO 1 MODE
14	GOBO 1 ROTATION/INDEX COARSE
15	GOBO 1 INDEX FINE 16 bit
16	GOBO 1 SHAKE
17	GOBO 2
18	GOBO 2 SHAKE
19	IRIS
20	IRIS MACROS
21	EFFECTS
22	EFFECTS ROTATION
23	NOT USED
24	FOCUS
25	ZOOM
26	LAMP ON/OFF - RESET

23- 8 MOTORS CONTROL CARD

8 MOTORS CONTROL CARD



J7 Magnetic Sensors Connector

Line 1 Brown
Line 2 Orange

GND
ORANGE
BROWN
VCC

J26 to 6 Motors Control card

J9 from J3 Lamp ON-OFF control card

J1 Internal DATA Communication Connector From J8 Pan & Tilt card

\+

30 VDC

–

Fans

Rotating gobo wheel
(BLACK)

Fixed gobo wheel
(DARK GREEN)

Strobe
(YELLOW)

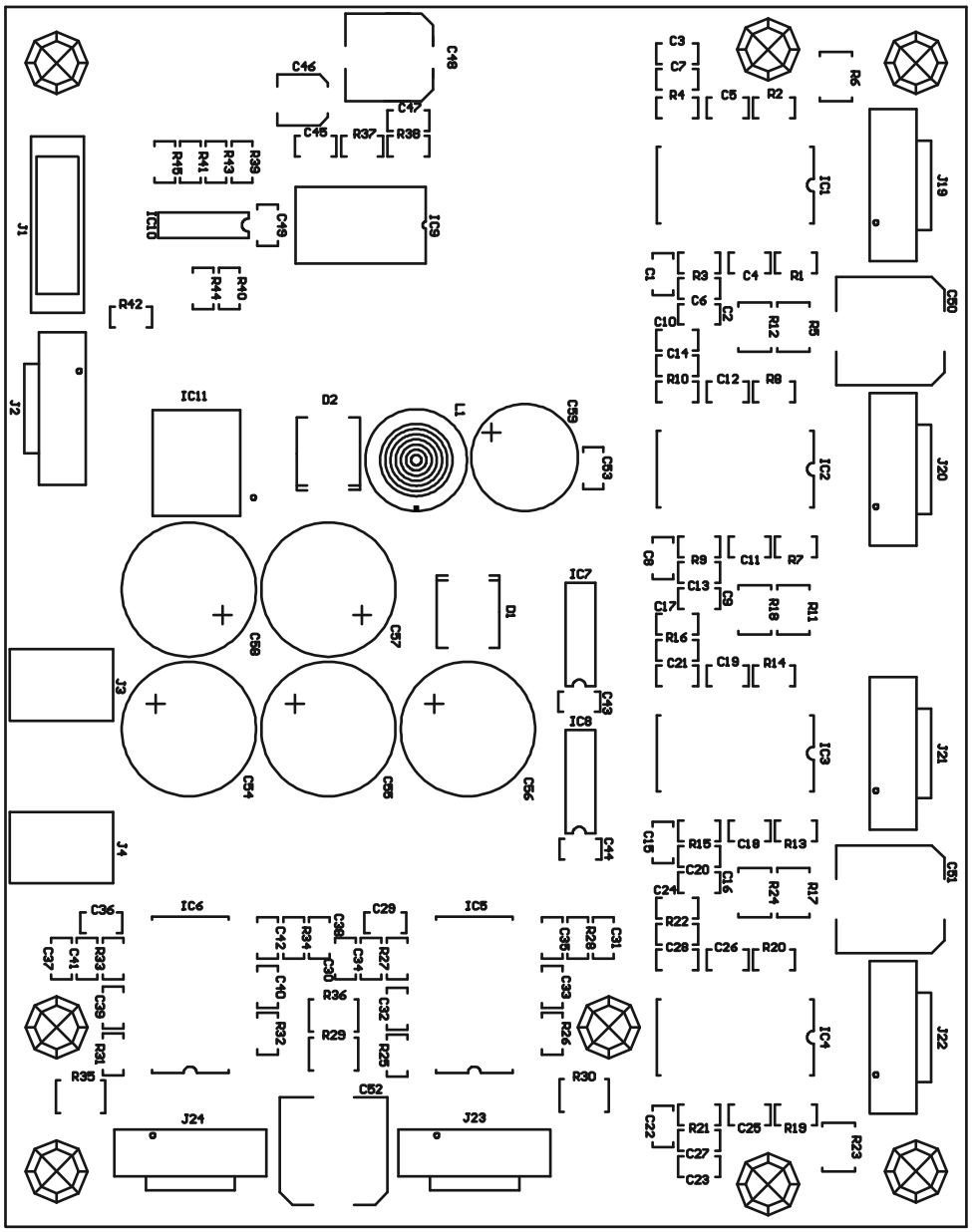
Colour 2
(GREY)

Colour 1
(LIGHT BLUE)

Fans

24- 6 MOTORS CONTROL CARD

6 MOTORS CONTROL CARD



J1 from 8 Motors

Control card

GND
RES LINE 3
RES LINE 3
+5V

\+

30 VDC

\-

Iris
(RED)

Effect rotation
(DARK ORANGE)

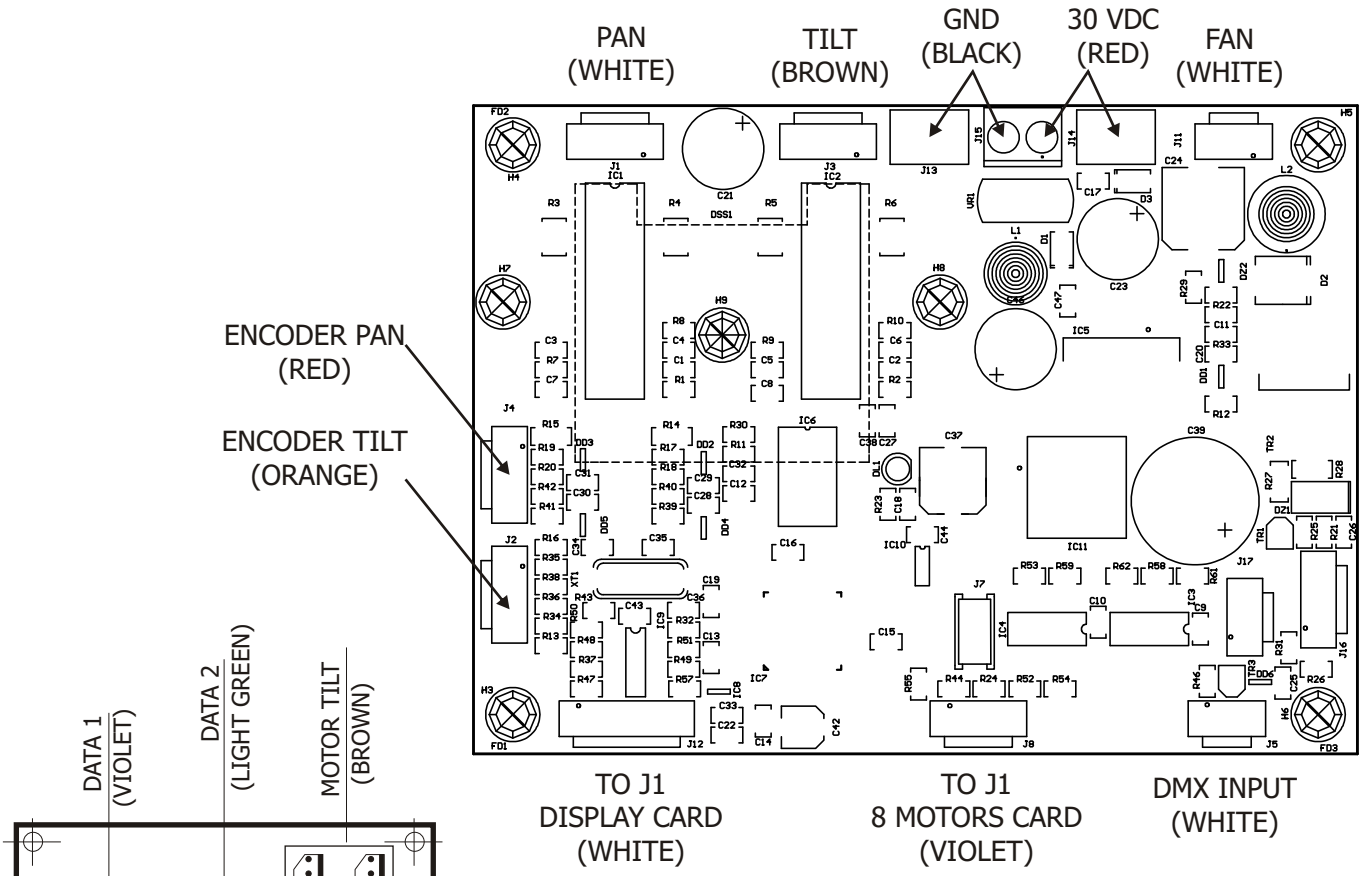
Effects
(LIGHT ORANGE)

Gobo rotation
(BROWN)

Zoom
(YELLOW)

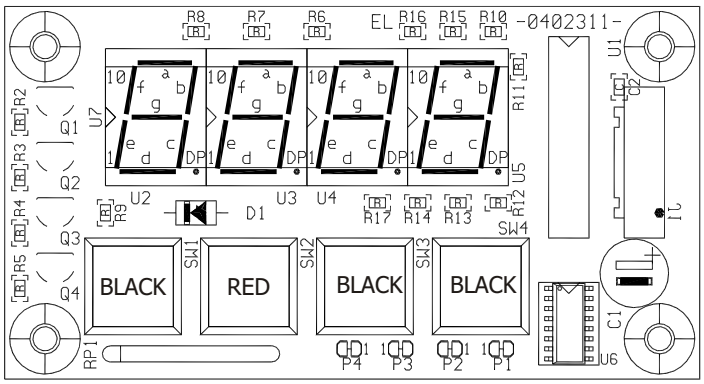
Focus
(VIOLET)

25-PAN & TILT CARD

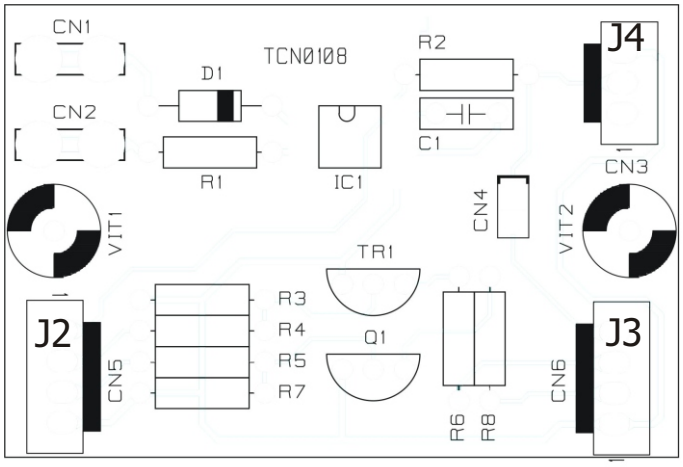


26-CABLES RESEND CARD

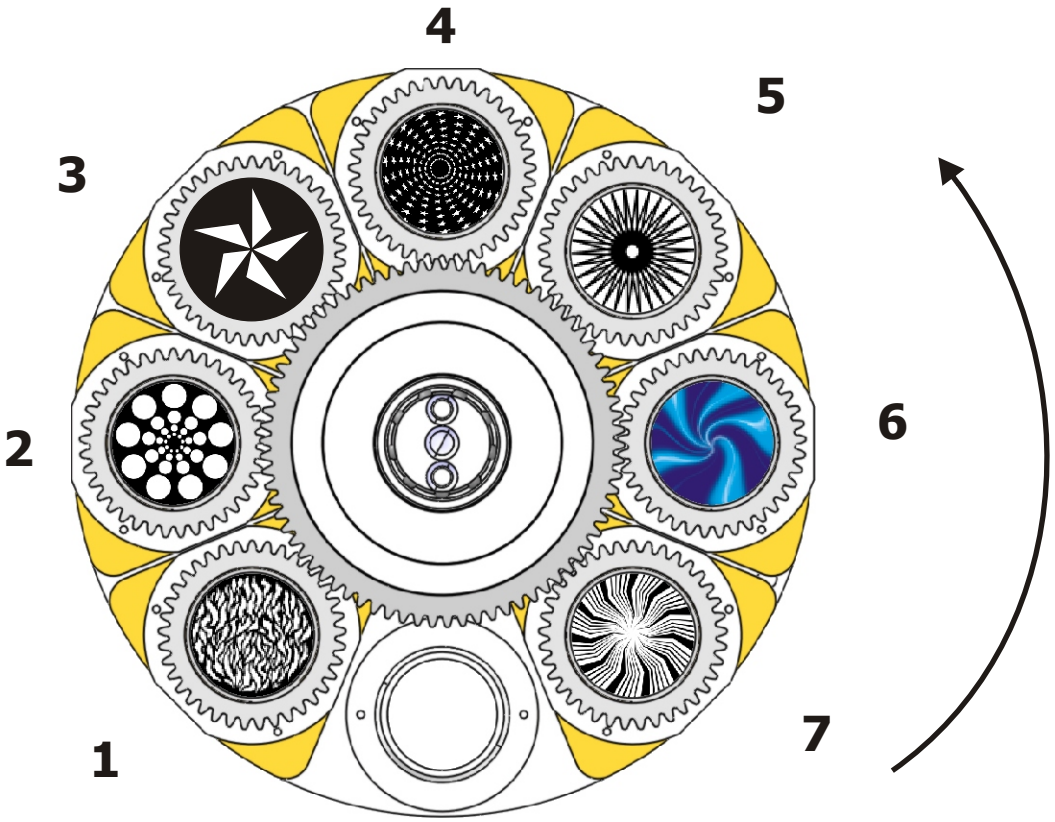
27-DISPLAY CARD



28-LAMP ON-OFF CONTROL CARD



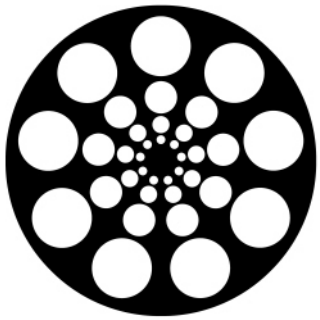
29- ROTATING GOBO WHEEL



GOBO 1 DICRO

0516G032.01

GOBO 2 METAL

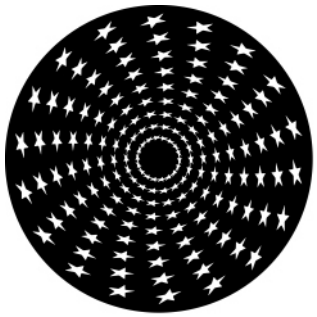


0516G032.08.M

GOBO 3 METAL

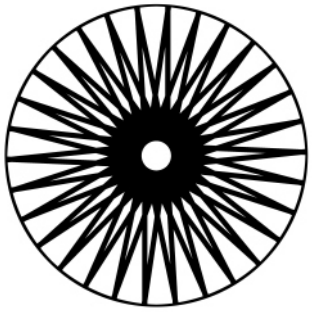
0516G032.12.M

GOBO 4 DICRO



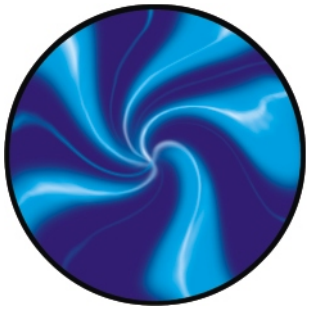
0516G032.10

GOBO 5 DICRO



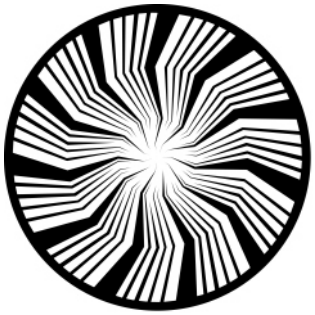
0516G032.11-B

GOBO 6 DICRO



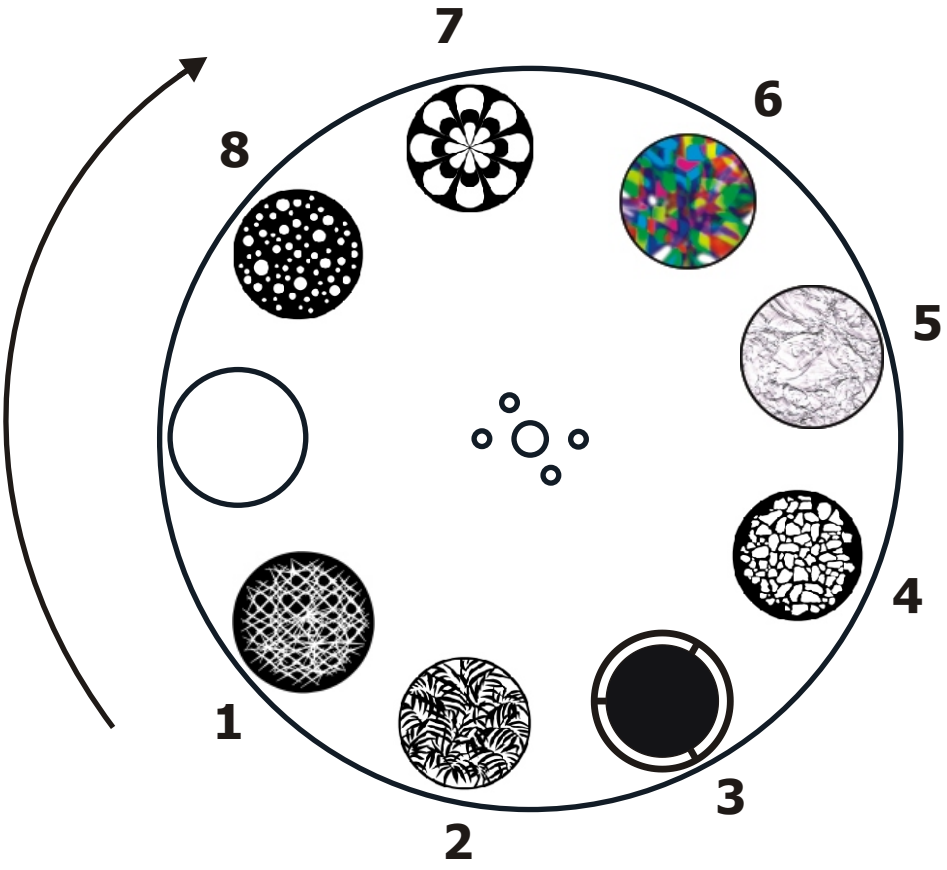
0516G032.03

GOBO 7 DICRO

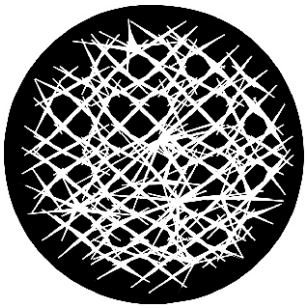


0516G032.05

30- FIXED GOBO WHEEL



GOBO 1 DICRO

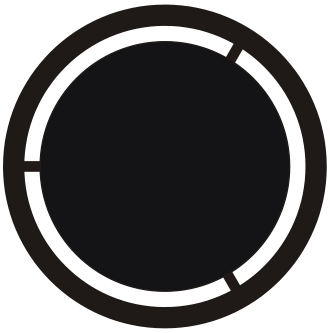


0516G032.06

GOBO 2 DICRO

0516G032.04

GOBO 3 METAL



0516G032.08.M

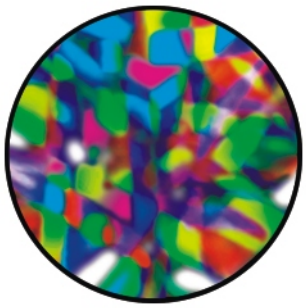
GOBO 4 METAL

0516G032.07.M

GOBO 5 GLASS

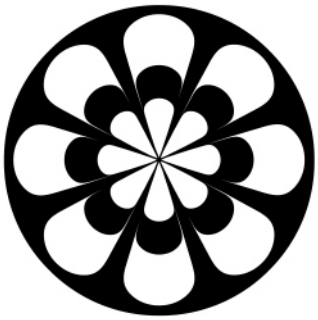
0516G032.14

GOBO 6 DICRO



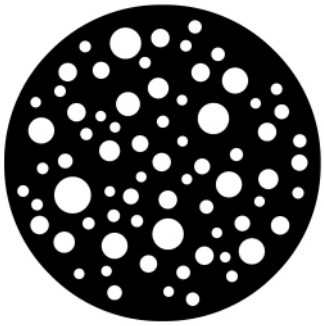
0516G032.09

GOBO 7 METAL



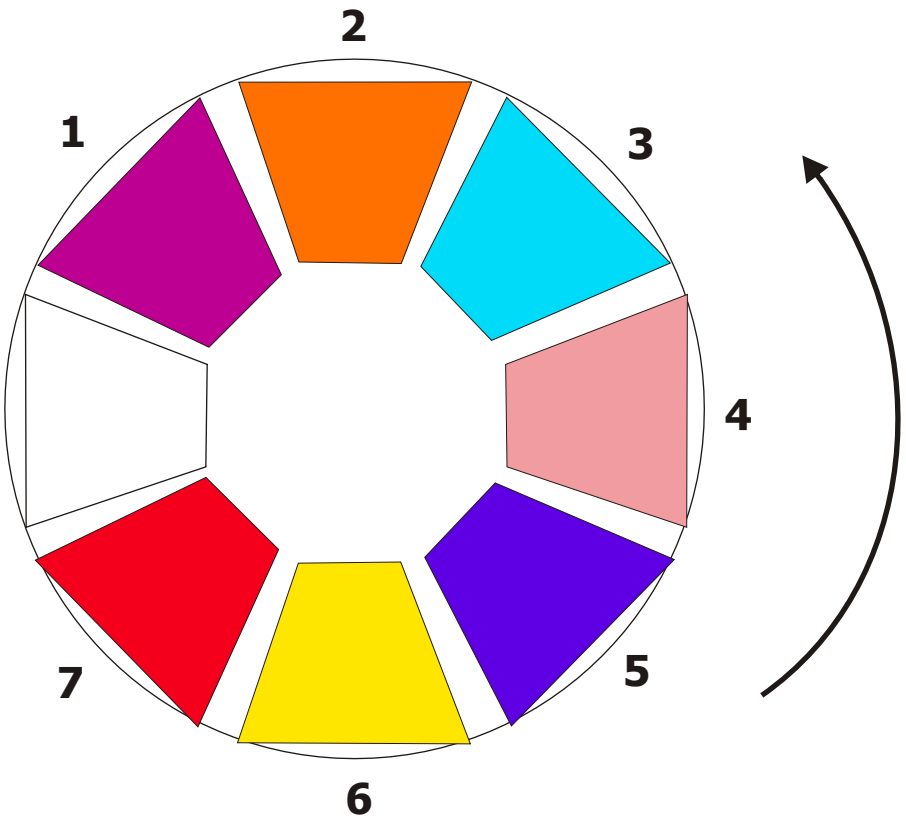
0516G032.13.M

GOBO 8 METAL



0516G032.02.M

31- COLOUR WHEEL 1



COL1

0507C043.D10
LAVANDER SL0064

COL2

0507C051.D10
ORANGE LW590

COL3

0507C045.D10
CYAN SW 530

COL4

0507C058.D10
PINK SL4758

COL5

0507C041.D10
DARK BLUE SW490

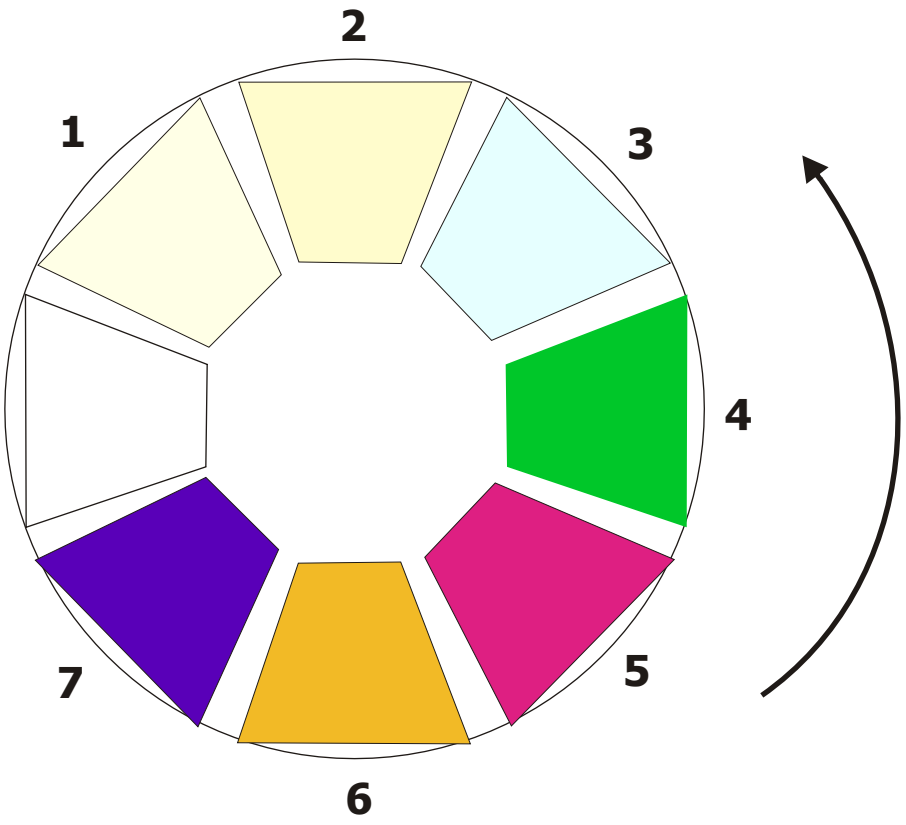
COL6

0507C049.D10
YELLOW LW 515

COL7

0507C047.D10
RED LW 640

32- COLOUR WHEEL 2



COL1

0507K005.D10
HALF CONV.FILTER
HOT TC3256

COL2

0507K004.D10
CONV.FILTER HOT
TC3256

COL3

0507K003.D10
CONV. FILTER COLD
DL542

COL4

0507C042.D10
GREEN WB5055

COL5

0507C038.D10
MAGENTA SL 4763

COL6

0507C053.D10
AMBER LW550

COL7

0507C046.D10
WOOD SW460

NOTES

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